

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.:	MO-0004936
Owner:	Ford Motor Company – c/o Vehicle Operations
Owner's Address:	P.O. Box 1586, Rm. C289, Dearborn, MI 48121
Operating Authority:	Same as above
Operating Authority's Address:	Same as above
Facility Name:	Ford Motor Company, Kansas City Assembly Plant
Facility Address:	8121 East Highway 69, Claycomo, MO 64119
Legal Description:	NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County
Latitude/Longitude:	+3912192/-09428338
Receiving Stream	Thornton Mill Creek (U) and Big Shoal Creek (P)
First Classified Stream and ID:	Big Shoal Creek (P) (0396)
USGS Basin & Sub-watershed No.:	(10300101 – 040001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See Page Two

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

May 6, 2005
Effective Date

May 5, 2010
Expiration Date
MO 780-0041 (10-93)

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Edward Galbraith, Director of Staff, Clean Water Commission

FACILITY DESCRIPTION (continued)

Outfall #001 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.
Design flow is 2.69 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County
Latitude/Longitude: 3912192/-9428338
Receiving Stream: Big Shoal Creek (P)
First Classified Stream and ID: Big Shoal Creek (P) (0396)
USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #002 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.
Design flow is 3.78 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County
Latitude/Longitude: 3912246/-9428431
Receiving Stream: Big Shoal Creek (P)
First Classified Stream and ID: Big Shoal Creek (P) (0396)
USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #003 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.
Design flow is 3.3 MGD (original design flow of 3.02 MGD plus 0.28 MGD from eliminated Outfall #020).

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County
Latitude/Longitude: 3912003/-9428447
Receiving Stream: Thorton Mill Creek (P)
First Classified Stream and ID: Big Shoal Creek (P) (0396)
USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #004 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.
Design flow is 1.72 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County
Latitude/Longitude: 3912026/-9428297
Receiving Stream: Thorton Mill Creek (P)
First Classified Stream and ID: Big Shoal Creek (P) (0396)
USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #005 – Not monitored, no exposure.

Outfall #006 - Industry - SIC #3711

Stormwater runoff.
Design flow is 0.21 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County
Latitude/Longitude: 3912004/-9428336
Receiving Stream: Thorton Mill Creek (P)
First Classified Stream and ID: Big Shoal Creek (P) (0396)
USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #007 – Not monitored, no exposure.

Outfall #008 - Industry - SIC #3711

Stormwater runoff.

Design flow is 2.95 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County

Latitude/Longitude: 3912162/-9428304

Receiving Stream: Big Shoal Creek (P)

First Classified Stream and ID: Big Shoal Creek (P) (0396)

USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #011 – Not monitored, no exposure

Outfall #012 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.

Design flow is 2.26 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County

Latitude/Longitude: 3912027/-9428507

Receiving Stream: Thorton Mill Creek (P)

First Classified Stream and ID: Big Shoal Creek (P) (0396)

USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #013 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.

Design flow is 2.30 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County

Latitude/Longitude: 3911573/-9428396

Receiving Stream: Thorton Mill Creek (P)

First Classified Stream and ID: Big Shoal Creek (P) (0396)

USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #14 – Industry – SIC #3711

Eliminated, stormwater flow directed to wastewater treatment facility

Outfall #15 – Industry – SIC #3711

Eliminated, stormwater flow directed to wastewater treatment facility

Outfall #016 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.

Design flow is 0.79 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County

Latitude/Longitude: 3912062/-9428583

Receiving Stream: Thorton Mill Creek (P)

First Classified Stream and ID: Big Shoal Creek (P) (0396)

USGS Basin & Sub-watershed No.: (10300101 – 040001)

Outfall #017 - Eliminated, ceased discharge of non-contact cooling water

Outfall #018 – Eliminated, ceased discharge of non-contact cooling water

Outfall #019 – Eliminated, no exposure

Outfall #020 – Eliminated

Flow routed to Outfall #003.

Outfall #021 - Industry - SIC #3711

Non-contact cooling water/stormwater runoff.

Design flow is 0.21 MGD.

Legal Description: NW ¼, SE ¼, Sec. 27, T51N, R32W, Clay County

Latitude/Longitude: 3911594/-9428333

Receiving Stream: Thorton Mill Creek (P)

First Classified Stream and ID: Big Shoal Creek (P) (0396)

USGS Basin & Sub-watershed No.: (10300101 – 040001)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 5 of 9	
					PERMIT NUMBER MO-0004936	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #001, 002, 003, 004, 012, 013, and 021</u>						
Flow	MGD	*		*	once/quarter	grab
Temperature	°F	**		**	once/quarter	grab
pH - Units	SU	***		***	once/quarter	grab
Settleable Solids	mL/L	1.5		1.0	once/quarter	grab
Oil and Grease	mg/L	15		10	once/quarter	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>July 28, 2005</u> .						
Chemicals currently exposed to stormwater or in the last three years. (Note 1)	mg/L	*		*	once/year in September	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2005</u> .						
<u>Outfall #006</u>						
Flow	MGD	*		*	once/quarter	grab
pH - Units	SU	***		***	once/quarter	grab
Settleable Solids	mL/L	1.5		1.0	once/quarter	grab
Oil and Grease	mg/L	15		10	once/quarter	grab
Hardness	mg/L	*		*	once/quarter	grab
Lead, Total Recoverable ****	ug/L	*		*	once/quarter	grab
Chemical Oxygen Demand	mg/L	*		*	once/quarter	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>July 28, 2005</u> .						
Chemicals currently exposed to stormwater or in the last three years. (Note 1)	mg/L	*		*	once/year in September	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 6 of 9	
					PERMIT NUMBER MO-0004936	
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		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #008</u>						
Flow	MGD	*		*	once/quarter	grab
pH – Units	SU	***		***	once/quarter	grab
Settleable Solids	mL/L	1.5		1.0	once/quarter	grab
Oil and Grease	mg/L	15		10	once/quarter	grab
Hardness	mg/L	*		*	once/quarter	grab
Lead, Total Recoverable ****	ug/L	*		*	once/quarter	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>July 28, 2005</u> .						
Chemicals currently exposed to stormwater or in the last three years. (Note 1)	mg/L	*		*	once/year in September	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2005</u> .						
<u>Outfall #016</u>						
Flow	MGD	*		*	once/quarter	grab
Temperature	°F	**		**	once/quarter	grab
pH - Units	SU	***		***	once/quarter	grab
Settleable Solids	mL/L	1.5		1.0	once/quarter	grab
Oil and Grease	mg/L	15		10	once/quarter	grab
Hardness	mg/L	*		*	once/quarter	grab
Copper, Total Recoverable	ug/L	*		*	once/quarter	grab
Lead, Total Recoverable ****	ug/L	*		*	once/quarter	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>July 28, 2005</u> .						
Chemical currently exposed to stormwater or in the last three years. (Note 1)	mg/L	*		*	once/year in September	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2005</u> .						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Effluent shall not elevate or depress the temperature of the receiving stream beyond the mixing zone more than 5°F. The stream temperature beyond the mixing zone shall not exceed 90°F due to the effluent.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- **** Total recoverable and dissolved Lead shall be analyzed using a method with a detection limit lower than 10 micrograms per liter when practicable.

Note 1: The permittee shall collect one representative sample per specified outfall per year in September taken during a rainfall which exceeds 0.1 inches and results in a discharge. The samples shall be analyzed for chemicals listed in 40 CFR 122 Appendix D (attached) which are currently or have been stored, disposed, loaded, unloaded, or treated outside in the last three years in open or unsecured containers or otherwise exposed to stormwater in the watershed of the outfall. A secure container shall be deemed to be a container with a lid that is securely closed and has no observable punctures, tears, or leaks.

Other soluble bulk materials that are not listed in 40 CFR 122 Appendix D that are exposed to stormwater must also be monitored. The Permittee shall submit a list of such materials with the annual report in October. Exempted from monitoring requirements are iron and aluminum, when stored outside in the form of solid steel and aluminum alloys, and gases. If the permittee has questions concerning which parameters to analyze, contact the Water Protection Program or the Kansas City Regional Office.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All outfalls must be clearly marked in the field.
3. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

 - (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic soluble pollutant, which was not reported in the permit application and which is exposed to stormwater.
 - (c) That the effluent limit established in part A of the permit will be exceeded.
4. Report as no-discharge when a discharge does not occur during the report period.
5. Water Quality Standards
 - (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

C. SPECIAL CONDITIONS (continued)

6. This permit does not authorize the discharge of process wastewater to waters of the state. All process wastewater must be discharged to sanitary sewer collection system tributary to a permitted wastewater treatment facility. Any bypass of process wastewater is a violation and must be reported to the department within twenty-four hours.
7. An annual operating report shall be submitted with the annual monitoring report. The report shall detail any unusual occurrences such as spills, tank failures or overflows, ruptured piping or other upsets which resulted in any loss of product, additive, or process waste exposed to the environment. The report shall also detail any remedial work undertaken to recover product or clean-up of the site.
8. The Permittee shall adhere to the following Best Management Practices (BMPs):
 - (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehousing activities and thereby prevent the contamination of storm water from these substances.
 - (b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention, control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
 - (d) Provide good housekeeping practices on the site to keep trash (solid waste) from entering into waters of the state. Facility staff, monthly, shall inspect the property, outfalls and the receiving stream immediately below outfalls for effectiveness of the practices to keep trash from entering waters of the state. Trash shall not be allowed to accumulate at or directly below outfalls.
 - (e) Designate an individual as responsible for environmental matters. Provide for inspection by facility staff, weekly, of the following structures that are exposed to stormwater and function to prevent pollution: Secondary containment structures from above ground storage tanks, less than 90-day hazardous waste pad, and gasoline underground storage tanks.
 - (f) Records of inspections must be kept onsite for a period of at least five years and made available to DNR upon request.
 - (g) Train all involved personnel in material handling and storage, and housekeeping of maintenance areas. Proof of training shall be submitted on request.
9. All fueling facilities present on the site shall adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers, including spill prevention, control and counter measures.
10. Water that has accumulated in secondary containment areas must be examined for possible contamination and tested if necessary. When the presence of contaminants is indicated, water shall be treated before release or taken to a permitted treatment facility.
11. Substances, regulated by federal law under the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), that are transported, stored, or used for maintenance, cleaning or repair, shall be managed according to RCRA and CERCLA.